Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2018-12-12-63** **Date: 13-09-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP,Banaglore.
Project Name	:	Improvements To Roads Of Navyanagara In Ward No.07 Byatarayanapura
Agency	:	Executive Engineer,KRIDL, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/100/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-09-2018
Sample ID No	:	2018-12-12-63/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	12-09-2018

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	62	60 to 70
2	Softening Point, °C	51.4	Min. 40°C
3	Ductility, cm	97	Min. 75cm
4	Flash point, °C	242	Min. 220°C
	Fire point, °C	274	

Note:-

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-12-12-63** **Date: 08-09-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP,Banaglore.
Project Name	:	Improvements To Roads Of Navyanagara In Ward No.07 Byatarayanapura
Agency	:	Executive Engineer,KRIDL, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/100/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-09-2018
Sample ID No	:	2018-12-12-63/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	06-09-2018
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	996	996	9.96	90.04	80-100
26.5	1686	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	896	9790	97.90	2.10	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.32%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2018-12-12-63** **Date: 12-09-2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP,Banaglore.

Project Name : Improvements To Roads Of Navyanagara In Ward No.07 Byatarayanapura

Agency : Executive Engineer,KRIDL, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010.

Customer Reference : BBMP/EE/BTP/WO/100/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-2018

Sample ID No : 2018-12-12-63/01

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 10-09-2018

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

Note:-

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End of Report

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-12-12-63**	**Date: 13-09-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP,Banaglore.	
Project Name	:	Improvements To Roads Of Navyanagara In Ward No.07 Byatarayanapura	
Agency	:	Executive Engineer,KRIDL, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010.	
Customer Reference	:	BBMP/EE/BTP/WO/100/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	11-09-2018	
Sample ID No	:	2018-12-12-63/01	
Type of Mix	:	BC-Plant (Bituminous Concrete)	
Date of test	:	11-09-2018	
Oven Dry Weight	:	5000	Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2018-12-12-63** **Date: 15-09-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP,Banaglore.
Project Name	:	Improvements To Roads Of Navyanagara In Ward No.07 Byatarayanapura
Agency	:	Executive Engineer,KRIDL, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/100/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-09-2018
Sample ID No	:	2018-12-12-63/01
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	12-09-2018

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

Note:-
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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-12-12-63** **Date: 17-09-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP,Banaglore.
Project Name	:	Improvements To Roads Of Navyanagara In Ward No.07 Byatarayanapura
Agency	:	Executive Engineer,KRIDL, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/100/2017-18
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	14-09-2018
Sample ID No	:	2018-12-12-63/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	14-09-2018

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

Note:-

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2018-12-12-63**	**Date: 21-09-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP,Banaglore.	
Project Name	:	Improvements To Roads Of Navyanagara In Ward No.07 Byatarayanapura	
Agency	:	Executive Engineer,KRIDL, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010.	
Customer Reference	:	BBMP/EE/BTP/WO/100/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	19-09-2018	
Sample ID No	:	2018-12-12-63/01	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	19-09-2018	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	469	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.20	6.00
4	Average percentage	%	6.1	

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Lab ID : **CP-RW-2018-12-12-63** **Date: 21-09-2018**

Sample ID : **2018-12-12-63/01**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 469

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.9	99.1	90-100
9.5	62	66	14.1	85.9	70-88
4.75	112	178	38.0	62.0	53-71
2.36	88	266	56.7	43.3	42-58
1.18	29	295	62.9	37.1	34-48
0.6	11	306	65.2	34.8	26-38
0.3	46	352	75.1	24.9	18-28
0.15	45	397	84.6	15.4	12-20
0.075	55	452	96.4	3.6	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.9	99.1	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.9	62.1	53-71
2.36	88	266	56.6	43.4	42-58
1.18	29	295	62.8	37.2	34-48
0.6	11	306	65.1	34.9	26-38
0.3	46	352	74.9	25.1	18-28
0.15	45	397	84.5	15.5	12-20
0.075	55	452	96.2	3.8	4-10

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DETERMINATION OF RATE OF SPREAD TACK COAT

13.9.18

Lab ID : **CP-RW-2018-12-12-63** **Date: 22-09-2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP,Banaglore.

Project Name : Improvements To Roads Of Navyanagara In Ward No.07 Byatarayanapura

Agency : Executive Engineer,KRIDL, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010.

Work Order Ref : BBMP/EE/BTP/WO/100/2017-18

Sample Condition : Satisfactory

Date of Receipt : 21-09-2018 13.9.18

Sample ID No : 2018-11-28-65/01

Type of Mix : Tack coat

Date of test : 21-09-2018

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-12-12-63**	**Date: 12-09-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP,Banaglore.	
Project Name	:	Improvements To Roads Of Navyanagara In Ward No.07 Byatarayanapura	
Agency	:	Executive Engineer,KRIDL, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010.	
Customer Reference	:	BBMP/EE/BTP/WO/100/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-09-2018	
Sample ID No	:	2018-12-12-63/01	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	10-09-2018	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	307.0	307.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	86.0	71.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	220.7	235.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.5
5	Aggregate impact value	(B/A)*100	28.0	23.1
6	Aggregate impact value (Mean of two tests)	Pecentage	25.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-12-12-63** **Date: 12-09-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP,Banaglore.
Project Name	:	Improvements To Roads Of Navyanagara In Ward No.07 Byatarayanapura
Agency	:	Executive Engineer,KRIDL, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/100/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-09-2018
Sample ID No	:	2018-12-12-63/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	10-09-2018

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2018-12-12-63**	**Date: 18-09-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP,Banaglore.	
Project Name	:	Improvements To Roads Of Navyanagara In Ward No.07 Byatarayanapura	
Agency	:	Executive Engineer,KRIDL, #280,59th Cross Road,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010.	
Customer Reference	:	BBMP/EE/BTP/WO/100/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	14-09-18	
Sample ID No	:	2018-12-12-63/01	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	14-09-18	

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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